syscon®
Waste Management Systems

MGB 60 MGB 80 MGB 120 MGB 140 MGB 180 MGB 240 MGB 360

User Manual

2-Wheel Polyethylene Mobile Garbage Bins

Introduction

Thank you for purchasing a two wheel polyethylene MGB from SYSCON Waste Management Systems. Please read the following User Manual carefully to become acquainted with some of the important features and specifications of your mobile garbage bin.

Contents

1. Technical Specifikations — Page

1.1 Technical Specifications 1
1.2 General Characteristics 2
1.3 Construction Details 3

2. General User Instructions

2.1 Proper Use of the Two Wheel MGB 4
2.2 Waste Disposal 4

3. Standard Features

3.1 Lifting Systems 5
3.2 Water Drainage Outlet 5
3.3 Pulling Force 6

4. Optional Features — Page

4.1 Foot Pedal 6
4.2 Chip Nest 7
4.3 Insert / Lid Solutions 7

5. Certifications

5.1 ISO Certification 8
5.2 GS-Label 8
5.3 EN Certification 8
5.4 Noise Certification 8

1. Technical Specifications

1.1 General Characteristics

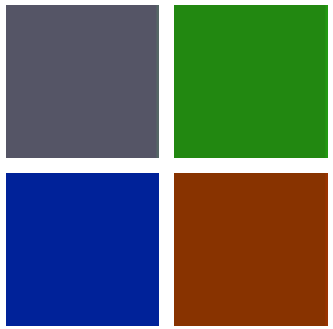
MGB		60 l		80 l		120 l	140 l	180 l	240 l	360 l
		low	high	low	high					
Volume (l)		60	60	80	80	120	140	180	240	360
Dead Weight (kg)		8,5	10	9	10	10	11	13	14	19
Maximum Load (kg)		26,5	30	33	35	50	59	77	96	146
Total Height (mm)	A	660	940	865	940	940	1060	1060	1060	1080
Total Width (mm)	B	440	440	440	440	480	480	525	575	580
Total Depth (mm)	C	500	500	500	500	540	550	630	730	875
Upper Edge Comb (mm)	D	595	875	800	875	870	1010	980	990	1000
Wheel Diameter (mm)	E	200	200	200	200	200	200 / 250	200 / 250	200 / 250	200 / 300

Subject to alterations

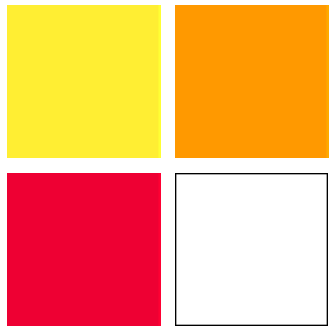
The total permissible weight per bin amounts to:

MGB60L low	35 kg
MGB60L high	40 kg
MGB80L low	42 kg
MGB80L high	45 kg
MGB120L	60 kg
MGB140L	70 kg
MGB190L	90 kg
MGB240L	110kg
MGB360L	165kg

Standard colours:



Special colours:



All bins have wheels with metal / plastic bearings.

1.2 Detailed Specifications

	MGB 60 low	MGB 60 high	MGB 80 low	MGB 80 hoch	MGB 120	MGB 140	MGB 180	MGB 240	MGB 360
Lifting System	Comb	Comb	Comb	Comb	Comb	Comb	Comb	Comb	Comb
Thickness	Side 3,7mm – Bottom 4,0 mm – Lid 3,3 mm	Side 3,7mm – Bottom 4,0 mm – Lid 3,3 mm	Side 3,7mm – Bottom 4,0 mm – Lid 3,3 mm	Side 3,7mm – Bottom 4,0 mm – Lid 3,3 mm	Side 3,8 mm Bottom 4,0 mm Lid 3,3 mm	Side 3,8 mm Bottom 4,0 mm Lid 3,3 mm	Side 3,9 mm Bottom 4,2 mm Lid 3,3 mm	Side 3,8 mm Bottom 4,2 mm Lid 3,1 mm	Side 4,0 mm Bottom 4,3 mm Lid 2,7 mm
Volume of the Body	59 l	59 l	78 l	78 l	111,5 l	126 l	175 l	238 l	337 l
Total Volume	63 l	63 l	81,5 l	81,5 l	120 l	139,6 l	192 l	255 l	359 l
Wheel	200mm Plastic with rubber rim	200mm Plastic with rubber rim	200mm Plastic with rubber rim	200mm Plastic with rubber rim	200mm Plastic with rubber rim	200mm or 250mm Plastic with rubber rim	200mm or 250mm Plastic with rubber rim	200mm or 250mm Plastic with rubber rim	200mm or 300mm Plastic with rubber rim
Axle	Galvanised Steel	Galvanised Steel	Galvanised Steel	Galvanised Steel	Galvanised Steel	Galvanised Steel	Galvanised Steel	Galvanised Steel	Galvanised Steel
Lid	Attached to the body with two holding pins	Attached to the body with two holding pins	Attached to the body with two holding pins	Attached to the body with two holding pins	Attached to the body with two holding pins	Attached to the body with two holding pins	Attached to the body with two holding pins	Attached to the body with two holding pins	Attached to the body with two holding pins
Empty Weight	8,5 kg	10 kg	9 kg	10 kg	10 kg	10,8 kg	12,5 kg	14 kg	18,8 kg
Nominal Load	26,5 kg	30 kg	33 kg	35 kg	50 kg	59 kg	77 kg	96 kg	146 kg

1.3 Construction Details

	MGB 60 low	MGB 60 high	MGB 80 low	MGB 80 high	MGB 120	MGB 140	MGB 180	MGB 240	MGB 360
Construction technology	Injection moulding	Injection moulding	Injection moulding	Injection moulding	Injection moulding	Injection moulding	Injection moulding	Injection moulding	Injection moulding
Construction Norm	Din-EN 840-1	Din-EN 840-1	Din-EN 840-1	Din-EN 840-1	Din-EN 840-1	Din-EN 840-1	Din-EN 840-1	Din-EN 840-1	Din-EN 840-1
Material	HDPE – high density polyethylene	HDPE – high density polyethylene	HDPE – high density polyethylene	HDPE – high density polyethylene	HDPE – high density polyethylene	HDPE – high density polyethylene	HDPE – high density polyethylene	HDPE – high density polyethylene	HDPE – high density polyethylene
Processing	Mass colouration with UV protection	Mass colouration with UV protection	Mass colouration with UV protection	Mass colouration with UV protection	Mass colouration with UV protection	Mass colouration with UV protection	Mass colouration with UV protection	Mass colouration with UV protection	Mass colouration with UV protection
Specific Gravity	0,955 g/cm3	0,955 g/cm3	0,955 g/cm3	0,955 g/cm3	0,955 g/cm3	0,956 g/cm3	0,955 g/cm3	0,955 g/cm3	0,955 g/cm3
Material M.F.I.	5,55g/10 min (190/2)	5,55g/10 min (190/2)	5,55g/10 min (190/2)	5,55g/10 min (190/2)	5,55g/10 min (190/2)	5,55g/10 min (190/2)	5,26g/10 min (190/2)	3,86/10 min (190/2)	3,86/10 min (190/2)
UV Stabiliser	180 mg/kg	180 mg/kg	180 mg/kg	180 mg/kg	180 mg/kg	180 mg/kg	180 mg/kg	180 mg/kg	180 mg/kg
Notched Impact Test	7,6 Mj/mm2	7,6 Mj/mm2	7,6 Mj/mm2	7,6 Mj/mm2	7,6 Mj/mm2	7,6 Mj/mm2	7,6 Mj/mm2	7,6 Mj/mm2	7,6 Mj/mm2
Melting Temperature	124°C	124°C	124°C	124°C	124°C	124°C	136°C	126°C	126°C
Hardness	48N/mm2	48N/mm2	48N/mm2	48N/mm2	48N/mm2	48N/mm2	48N/mm2	48N/mm2	48N/mm2
Bending Resistance	20N/mm2	20N/mm2	20N/mm2	20N/mm2	20N/mm2	20N/mm2	20N/mm2	20N/mm2	20N/mm2
Tearing Resistance	29N/mm2	29N/mm2	29N/mm2	29N/mm2	29N/mm2	29N/mm2	29N/mm2	29N/mm2	29N/mm2
Impact Resistance	No breaks ISO R 79	No breaks ISO R 79	No breaks ISO R 79	No breaks ISO R 79	No breaks ISO R 79	No breaks ISO R 79	No breaks ISO R 79	No breaks ISO R 79	No breaks ISO R 79
Lengthening	>600% ISO R 527	>600% ISO R 527	>600% ISO R 527	>600% ISO R 527	>600% ISO R 527	1,65 10-4 (DIN 52328)	1,40 10-4 (DIN 52328)	1,40 10-4 (DIN 52328)	1,40 10-4 (DIN 52328)
Liquid Absorption	none	none	none	none	none	none	none	none	none
Corrosion Resistance	100%	100%	100%	100%	100%	100%	100%	100%	100%

The bins are manufactured from high quality raw material, meeting the highest client expectations and guaranteeing long service life and stability, even after several years of use.

2. General User Instructions

2.1 Proper Use of the Two Wheel MGB

- Do not, under any circumstances, use the bin for the disposal of hot ashes or inflammable material.
- Do not dispose of any non recyclable liquids, such as oil, grease or industrial liquid waste.
- Do not dispose of large or heavy metal or steel objects.
- Do not dispose of heavy objects or equipment.

All bins have a maximum load capacity which is set out in the table *General Characteristics* on page 1.
Overloading may cause damage to the bin.

2.2 Waste Disposal

In most cases, your municipal authority will supply different means of disposing of a range of recyclable and non-recyclable materials. If so, please ensure that your litter is placed into the proper bin depending on the material. In any case, before you throw away your litter, please remember to:

- decrease the volume of your waste
- empty liquids out of bottles and remove paper labels
- remove packaging from recyclable waste
- avoid disposing of loose, very light materials, which may pollute the surrounding area
- place the waste in a bin liner before disposing of it in the bin.

3. Standard Features

3.1 Lifting Systems

SYSCON's two wheel MGBs are available either with DIN or AFNOR comb to ensure compatibility with common lifting procedures using comb reception.

3.2 Water Drainage Outlet

Upon request a bung with drain plug can be integrated into the floor of all two wheel bins. In combination with the rounded edges of the bin, this makes for easy, hygienic cleaning of the bin. Rain water and liquid residues can be drained off easily. The plug is water tight and can be opened from the outside.

3.3 Pulling Force

The pulling force of each type of bin was measured according to the EN 840-5 norm, before and after the kerb travel test.

		MGB 120 L	MGB 140 L	MGB 180 L	MGB 240 L	MGB 360 L
Start	Pulling force for new containers	52 N	57 N	60 N	60 N	80 N
Steady moving		43 N	45 N	45 N	45 N	55 N
Start	After the kerb travel test	55 N	57 N	58 N	60 N	70 N
Steady moving		45 N	45 N	42 N	40 N	50 N

4. Optional Features

4.1 Foot Pedal

The foot pedal is an additional accessory that allows easy opening of the lid with one foot, freeing both hands. This accessory can be applied to all two wheel bins.

4.2 Chip Nest

Identification of individual bins and recording of bin data is made possible via a special chip nest. Each SYSCON bin is equipped with such a chip nest discreetly placed under the comb. The chip is placed there almost invisibly, protected long-term against rain water and mechanical damage. It is programmed individually and read during the lifting and tipping process.

4.3 Insert / Lid Solutions

On request, SYSCON offers a variety of different reinforced lids, with insert solutions for standard materials such as metal, glass and paper. All two wheel bins can be equipped with such lids, firmly hinged to the body, with standard insert slots or customised insert solutions meeting specific client requirements. Please read carefully the instructions on handling recycling materials in the chapter on *Waste Disposal*.

Bow Handle Lid

Handle Strip Lid

2in1- Lid

Glass Insertion
with Rubber Rosette

Paper Insertion Slot
with Rain Hood

5. Certifications

Quality assured:
High quality products and safety of use are taken for granted at SYSCON. All products are therefore manufactured, tested and certified according to the latest European standards. In addition, the GS label, issued by the Gewerbeanstalt (LGA) Bavaria demonstrates to our clients that the safety of our products has been tested and certified.

5.1 ISO Certification

Systematic quality control of the raw material, manufacturing processes and end products ensure consistent quality in line with ISO 9001 Quality Management Systems. Strategies and actions related to environmental issues conform to the ISO 14001 Environmental System Standard.

5.2 GS Label

The GS Label stands for 'Geprüfte Sicherheit', ie. safety tested. It certifies that a product meets the requirements of the German safety law GSG, the safety regulations of the trade associations, DIN and EN standards, as well as commonly accepted technical regulations. In order to display a GS label for a product, a manufacturer needs to have it tested by an accredited inspection authority (e.g. the LGA). To maintain the label, an annual inspection of the production plant is required.

5.3 EN Certification

SYSCON and all two wheel mobile garbage bins are certified according to Standard EN 840.

5.4 Noise Certification LWA 99 db (A)

Similarly, bins have been tested and certified according to European Standard LWA 99db (A).

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